

HTG CAA-02-2014-1459 PART C.11.m—5 year plan

Descriptions 2014-2020

Company Confidential Business Information, Proprietary/Trade Secret- 5 U.S.C. 552(b)(4)

	Unit	2,014	2015	2016	Unit	2017	Unit	2018	Unit
Grate Bar Overhaul -61620 The grate bar overhaul scope for 2015 will replace all grate bars, center division, and side compensation plates as well as any damaged carrier beams. This overhaul has been reduced from a complete (13 steps) to a partial OH steps 2 thru 9	1	316,750	211,000		nc	in non respon	nc	non respon	nc
Super heater hopper replacement This project would replace the superheater hopper closest to the boiler. This hopper is exposed to high flue gas temperatures and takes a significant toll of the steel. After numerous outages, the existing steel can no longer be plated over and must be replaced.	2		81,000	1	non respon				
	3		81,000						
Riddlings chute replacement The riddlings chute require a significant amount of attention and cost during each outage. Repairs are becoming more difficult as the metal becomes thinner. This project would replace 2 chutes per boiler over the next three years	1		75,000	2	non respon	nc	non respon		
Convection Hopper Replacement - 60380 The convection hopper refractory was replaced with tiles a few years ago and has proved extremely successful. The major safety concerns we had encountered prior with hopper cleaning during outages prior to the new design have been eliminated.	3	-	212,000	1	non respon				
				2	non respon				
Furnace Tile Each furnace has approx. 1,500 sq feet of refractory installed. Over the last few years we have been installing tile and the proposed 2014 project of approx 400 sq' per unit will complete all the required tile installation. In 2013 we did not budget tile work to accomadate the super heater replacement expenditure.	2	96,000							
	1	96,000							
Inconel This project will provide 150 sq' of inconel overlay protection per boiler in the second pass and for units 1&2 an additional 100sq' in the third pass. Actual amounts will be determined during UT inspections. Includes 75,000 inconel wire	3	96,000	1	96,000					
	1	97,500		97,200	non respon	nc	non respon	non respon	nc
Metal spray The facility installed a test patch of this product in the second pass in 2006 and based on the success of the R&D we have expanded our use with similar success in other areas. In 2015 we will install 230sq' in the furnace rear wall slope. Long term prospects could prove very favorable for the company with reduced outage time to apply this product as well as cost competitive	2	97,500		97,200	non respon	nc	non respon	non respon	nc
	3	65,000		97,200	non respon	nc	non respon	non respon	nc
Superheater tube re The finishing superheater tubes were replaced in 2012 and 2013 non responsive									
Feed table Brick/Drop-off wall Feed table brick and drop off wall replacement is on a 5 year cycle. The last overhaul was in 2007.	2			non respon					nc
	3			non respon					

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We estimate 200 sq feet of monolithic refractory repairs at 50,000 for each boiler.